

Amendments to the Claims

Please amend the claims and add new claims 50-69 as set forth below.

1. (Currently Amended) A prosthesis, comprising:
 - a femoral prosthesis configured to cover a portion of the distal end of a femur, comprising:
 - a saddle-shaped trochlear groove portion comprising:
 - a central convexly-shaped groove extended toward a distal end of the femoral prosthesis;
 - a convexly-shaped medial portion extending upwardly away from a first side of the central groove; and
 - a convexly-shaped lateral portion extending upwardly away from a second side of the central groove; and
 - an intercondylar notch portion intersecting the trochlear groove portion, wherein the intercondylar notch portion is configured to overlie a portion of the intercondylar notch without substantially extending onto the lateral or medial condyle, comprising:
 - a first wing extending distally and curving posteriorly from the distal end of the medial portion; and
 - a second wing extending distally and curving posteriorly from the distal end of the lateral portion and curving away from the first wing; and
 - a patellar prosthesis configured to cover a posterior portion of a patella, comprising a first surface configured to be attached to a patella, and a second surface configured to cooperate with the trochlear groove and intercondylar notch portions of the femoral prosthesis to facilitate sliding engagement between the femoral prosthesis and the patella prosthesis.
2. (Original) The prosthesis of claim 1 wherein the patellar prosthesis is formed of a

different material than the femoral prosthesis.

3. (Original) The prosthesis of claim 1 wherein the first and second wings each have a length that is at least approximately one quarter the length of the trochlear groove portion.
4. (Original) The prosthesis of claim 1 wherein the first and second wings are tapered so that adjacent the trochlear groove portion the wings have a width that is greater than terminal ends of the wings.
5. (Original) The prosthesis of claim 1 wherein the first and second wings form a generally arch-shaped surface.
6. (Currently Amended) A femoral prosthesis configured to cooperate with a patellar prosthesis, comprising:
 - a first portion configured to cover a portion of the length of the trochlear groove on the distal end of a femur;
 - a second portion connected to a distal end of the first portion configured to cover a portion of the intercondylar notch on the distal end of the femur; wherein the second portion ~~comprising~~ comprises:
 - first and second wings that flare outwardly from the distal end of the first portion, wherein the first wing extends transverse the first portion laterally and posteriorly of the first portion, and the second wing extends transverse the first portion medially and posteriorly of the first portion;

wherein an outer edge of one of the wings is configured to terminate on an outer surface of the intercondylar notch so that the wing does not substantially extend onto a distal surface of a condyle of the femur.

7. (Previously Presented) The prosthesis of claim 6 wherein the first portion comprises a convex posterior surface configured to cooperate with the trochlear groove of the knee and a concave anterior surface configured to cooperate with a convex surface of the patellar prosthesis.
8. (Previously Presented) The prosthesis of claim 6 wherein the first portion tapers inwardly from a medial and lateral direction to form a narrow waist adjacent the intersection of the first and second portions.
9. (Previously Presented) The prosthesis of claim 6 wherein the first wing tapers so that a distal end of the first wing remote from the first portion is narrower than the width of the first wing adjacent the first portion.
10. (Previously Presented) The prosthesis of claim 9 wherein the second wing tapers so that a distal end of the second wing remote from the first portion is narrower than the width of the second wing adjacent the first portion.
11. (Currently Amended) The prosthesis of claim 6 wherein the one wing is the first wing, and the outer surface of the intercondylar notch is a lateral surface, wherein the first wing has a lateral edge of the first wing is configured to terminate on a the lateral surface of the intercondylar notch so that the first wing does not substantially extend onto a distal surface of a lateral condyle of the femur.
12. (Currently Amended) The prosthesis of claim 6 wherein the one wing is the first wing, and the outer surface of the intercondylar notch is a medial surface, wherein the first wing has a medial edge of the second wing is configured to terminate on a the medial surface of the intercondylar notch so that the second wing does not substantially extend onto a distal surface of a medial condyle of

the femur.

13. (Previously Presented) The prosthesis of claim 6 wherein the first and second wings each form a generally triangular-shaped profile so that the wings are configured to terminate within the intercondylar notch of the femur.
14. (Currently Amended) A knee prosthesis for covering a portion of a patient's patella, and trochlear groove and intercondylar notch of the femur, comprising:
 - a patellar prosthesis configured to cover a posterior surface of a patella; and
 - a femoral prosthesis comprising:
 - a body having a posterior surface configured to cover a portion of the trochlear groove and an anterior surface forming a groove that is cooperable with the posterior surface of the patellar prosthesis;
 - a medial extension projecting away from a distal end of the body configured to extend along a medial edge of the intercondylar notch; and
 - a lateral extension projecting away from a distal end of the body configured to extend along a lateral edge of the intercondylar notch;

wherein either the medial extension or the lateral extension is configured to terminate along the intercondylar notch without substantially overlying a condyle of the femur.
15. (Previously Presented) The knee prosthesis of claim 14 wherein the medial and lateral extensions intersect the body to form a generally U-shaped configuration.
16. (Previously Presented) The knee prosthesis of claim 14 wherein the medial and lateral extensions form opposing sides of a bearing surface configured to cooperate with the patellar prosthesis.

17. (Previously Presented) The knee prosthesis of claim 14 wherein the medial extension has a length and a width and the length is substantially greater than the width.
18. (Previously Presented) The knee prosthesis of claim 17 wherein the lateral extension has a length and a width and the length is substantially greater than the width.
19. (Previously Presented) The knee prosthesis of claim 14 wherein the medial extension has an inner edge opposing the lateral extension and an outer edge, wherein the outer edge is configured to terminate over the intercondylar notch without extending over an articular surface of the medial condyle.
20. (Previously Presented) The knee prosthesis of claim 14 wherein the medial extension has an inner edge opposing the lateral extension and an outer edge, wherein the outer edge comprises a generally convexly-shaped curve.
21. (Previously Presented) The knee prosthesis of claim 14 wherein the lateral extension has an inner edge opposing the medial extension and an outer edge, wherein the outer edge is configured to terminate over the intercondylar notch without extending over an articular surface of the lateral condyle.
22. (Previously Presented) The knee prosthesis of claim 14 wherein the lateral extension has an inner edge opposing the medial extension and an outer edge, wherein the outer edge comprises a generally convexly-shaped curve.
23. (Previously Presented) The knee prosthesis of claim 14 comprising a separate medial condyle prosthesis configured to cover an articular surface of a medial condyle, wherein the medial condyle prosthesis has an inner edge configured to

cooperate with an outer edge of the medial extension.

24. (Previously Presented) The knee prosthesis of claim 14 comprising a separate lateral condyle prosthesis configured to cover an articular surface of a lateral condyle, wherein the lateral condyle prosthesis has an inner edge configured to cooperate with an outer edge of the lateral extension.

25. (Previously Presented) The knee prosthesis of claim 14 wherein the body, medial extension and lateral extension are a unitary element.

26 - 49. (Canceled).

50. (New) A femoral prosthesis, consisting essentially of:
a body having a posterior surface configured to overlie a portion of the trochlear groove and an anterior surface forming a groove that is configured to cooperate with a posterior surface of a patellar prosthesis; and
an intercondylar notch portion connected with the body portion, wherein the intercondylar notch portion has outer edges that terminate so that the intercondylar notch portion is configured to overlie at least a portion of the intercondylar notch without substantially extending over an articular surface of a condyle.

51. (New) The prosthesis of claim 50 wherein the intercondylar notch portion comprises medial and lateral extensions that intersect the body.

52. (New) The prosthesis of claim 51 wherein the medial and lateral extensions form opposing sides of a bearing surface configured to cooperate with a patellar prosthesis.

53. (New) The prosthesis of claim 51 wherein the medial and lateral extensions

project away from the body forming a gap between the medial and lateral extensions.

54. (New) The prosthesis of claim 51 wherein the medial and lateral extensions each have a width and a second end remote from the body, wherein a gap is formed between the second ends and the gap is substantially wider than the width of the medial and lateral extensions adjacent the second ends
55. (New) The prosthesis of claim 50 in combination with a separate condyle prosthesis configured to cover an articular surface of a condyle, wherein the condyle prosthesis has an inner edge configured to cooperate with an outer edge of the intercondylar notch portion.
56. (New) The prosthesis of claim 50 wherein the intercondylar notch portion comprises first and second wings projecting away from one another, wherein the first wing projects medially and posteriorly and the second wing projects laterally and posteriorly.
57. (New) The prosthesis of claim 50 wherein the intercondylar notch portion comprises a first portion that curves laterally and a second portion that curves medially, away from the first portion.
58. (New) The prosthesis of claim 50 wherein the body tapers inwardly from a medial and lateral direction to form a narrow waist adjacent the intercondylar notch portion.
59. (New) A femoral prosthesis, comprising:
a first portion configured to cover a portion of the length of the trochlear groove on the distal end of a femur;

a second portion connected to a distal end of the first portion configured to cover a portion of the intercondylar notch on the distal end of the femur, wherein the second portion comprises:

first and second extensions that flare outwardly from the distal end of the first portion, wherein the first extension extends transverse the first portion laterally and posteriorly of the first portion, and the second extension extends transverse the first portion medially and posteriorly of the first portion;

wherein the first portion tapers inwardly from a medial and lateral direction to form a narrow waist adjacent the intersection of the first and second portions.

60. (New) The prosthesis of claim 59 wherein the first portion comprises a concave anterior surface configured to cooperate with a convex surface of the patellar prosthesis.
61. (New) The prosthesis of claim 59 wherein the first extension tapers so that a distal end of the first extension remote from the first portion is narrower than the width of the first extension adjacent the first portion.
62. (New) The prosthesis of claim 63 wherein the second extension tapers so that a distal end of the second extension remote from the first portion is narrower than the width of the second extension adjacent the first portion.
63. (New) The prosthesis of claim 59 wherein a lateral edge of the first extension is configured to terminate on a lateral surface of the intercondylar notch so that the first extension does not substantially extend onto a distal surface of a lateral condyle of the femur.

- 64. (New) The prosthesis of claim 6 wherein a medial edge of the first extension is configured to terminate on a medial surface of the intercondylar notch so that the first extension does not substantially extend onto a distal surface of a medial condyle of the femur.
- 66. (New) The prosthesis of claim 61 wherein the first and second extensions each form a generally triangular-shaped profile so that the extensions are configured to terminate within the intercondylar notch of the femur.
- 67. (New) The prosthesis of claim 61 wherein an outer edge of one of the extensions is configured to terminate on an outer surface of the intercondylar notch so that the extension does not substantially extend onto an articular surface of a condyle of the femur.
- 68. (New) The prosthesis of claim 61 wherein the first and second extensions project away from each other forming a gap between the first and second extensions along at least a majority of the length of the first and second extensions.